

CLAIMS

1. An all terrain vehicle comprising:
  - a) a chassis;
  - b) two front wheels that are steerable;
  - c) two rear wheels;
  - 5 d) a seat that is positioned on the chassis generally above the rear wheels and in between the front and rear wheels;
  - e) handlebars that are positioned in front of the 10 seat for steering the front wheels;
  - f) an engine mounted to the chassis generally in between the front and rear wheels;
  - 15 g) an automatic transmission that interfaces the engine with the rear wheels, the automatic transmission including at least a housing, a plurality of pulleys and a belt that engages the pulleys;
  - h) an air flow channel that intakes air to the transmission housing and that discharges air from the transmission housing for cooling the interior of the 20 transmission housing; and
  - i) a valve mounted at the lower end of the transmission housing for draining, during use, any water than enters the transmission housing via the intake, wherein the intake is positioned at an elevation above at 25 least a majority of the transmission housing interior.
2. The apparatus of claim 1 further comprising an air filter housing and an air intake conduit that communicates air to the air intake housing, the housing communicating with a carburetor that is attached to the 30 engine and a valve that continuously drains any water that might accumulate within the air filter housing.
3. The apparatus of claim 1 or 2 wherein there are two separate air intake conduits, a first conduit that intakes air generally above the front wheels and 35 communicates that air to the automatic transmission housing

interior and a second air intake that is positioned generally above the front wheels for transferring air to the air filter housing.

4. The apparatus of claim 1 wherein the valve  
5 includes a flapper portion.

5. The apparatus of claim 1 wherein the valve is a one way valve.

6. The apparatus of claim 1 wherein the valve is a check valve.

10 7. The apparatus of claim 1 wherein water gravity drains from the housing through the valve.

8. The apparatus of claim 1 wherein at least part of the valve is of a polymeric material.

15 9. The apparatus of claim 1 wherein at least part of the valve is of a rubber material.

10. The apparatus of claim 1 wherein at least part of the valve is of a pliable material.